RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/549,289
Source:	IFWP,
Date Processed by STIC:	9/21/06
J	

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 09/21/2006
PATENT APPLICATION: US/10/549,289 TIME: 11:35:37

Input Set : A:\81356248.APD

Output Set: N:\CRF4\09212006\J549289.raw

```
3 <110> APPLICANT: TAHARA, TOMOYUKI
        ABIKO, YOSHIMITSU
        YOSHIE, HIROMASA
 5
        KOBAYASHI, TETSUO
 6
 7
        UMEMOTO, TOSHIO
 8
        HAMADA, NOBUSHIRO
10 <120> TITLE OF INVENTION: A THERAPEUTIC AGENT FOR PERIODONTAL DISEASE
12 <130> FILE REFERENCE: 81356-248
14 <140> CURRENT APPLICATION NUMBER: 10/549,289
15 <141> CURRENT FILING DATE: 2005-09-16
17 <150> PRIOR APPLICATION NUMBER: PCT/JP04/003569
18 <151> PRIOR FILING DATE: 2004-03-17
20 <150> PRIOR APPLICATION NUMBER: JP 2003-072714
21 <151> PRIOR FILING DATE: 2003-03-17
23 <160> NUMBER OF SEQ ID NOS: 2
25 <170> SOFTWARE: PatentIn Ver. 3.3
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 2008
29 <212> TYPE: DNA
30 <213> ORGANISM: Porphyromonas gingivalis
32 <400> SEQUENCE: 1
33 gaattccaac cgtggaaagg ggagatagag cggcgcaaca acggatcgat cattgcgctc 60
34 gaaageggaa eggeetatge etatgeeetg aataatetee aaageegtgg aegettette 120
35 atctctccgc aggaggaggt ctatgccggt caggtcqtgg gcgagcacac gaaggagggc 180
36 gatetetgeg teaacgtetg caagageaaa aagettacea atatgegtge tteeggtage 240
37 gatgataagg tgtcactggc tccaccggtg gtattcagcc tcgaagatgc tttggagtat 300
38 atcaagtatg acgagtatgt ggaggtgacg ccgaaaagca tgcgcatgcg taaaattatc 360
39 ctcgacgaga cagaacgtaa acgacaagga cgataacaga ggcaaagtat ttgcagattt 420
40 catctatcta acgtattttg gtgcccgaaa tacggaaaat caaacaaaat gtttcactaa 480
41 caaaaaagat aaacgaacat gaaaagatta ttactctctg ctgctatcct aagtagtatg 540
42 gctttgttta atgtcaatgc acaagagttg aaaacctctg ctgacatgaa aggttctttt 600
43 aagaagaatg tggtattgga ggtatttact gccgaatggt gcggttactg tccaggtggt 660
44 aaagagegea ttgcaaaage aattgaaatg ttggatgatg aatataagga gegtgttttt 720
45 cagacatttg ttcattataa tgatgggatc tcaaaaaaat ggcctcgtgt tggccaactt 780
46 ttcattgcat tggatcaaac attgggcatt ccgggttttc cgactttttc agtttgccgt 840
47 atggagaaaa aaggtgaaaa tctttcaata ggtgctccaa tagcaattaa aaataagatt 900
48 atgaaaggtt ttggtgatgg tacagccct gcagaggtaa accttaaatt gaccaaaggt 960
49 gcaacaccgg aagatgtatg tacagctaca tttactgqta aagtcgatgc agacctcata 1020
50 gggaaacctc ttatgttgac tgcatatgta ttgaaaaaca atatgaagcc tattaatccg 1080
51 caaaatggag ctggggatgg atatctccac caacatactg tgttaatgat tctctccaca 1140
52 gatgtaaaag gagacgcttt aaatattgca gccgatggaa gttttaccat caagaaagaa 1200
53 tttaagttgg atggctttga aataaaagat acagatqttc ttgctttcgt acaccatcca 1260
54 atgtccaatg cggaaaacca ttctattatc aatgccgggc aagaaagcct tgataaagca 1320
```

RAW SEQUENCE LISTING DATE: 09/21/2006
PATENT APPLICATION: US/10/549,289 TIME: 11:35:37

Input Set : A:\81356248.APP

Output Set: N:\CRF4\09212006\J549289.raw

55 gageetacag etacagaaca aattgttget acceeetetg teaaageata tgtteagaat 1380 56 ggcaaaattg ttgtagagga agagtattcc aagatggaag tattcaatgc aactggtcaa 1440 57 cttgtcaaaa atgaatccct tgtccccggt gtctatgttg tccgtataac ggcaaacggt 1500 58 gtaatgcatt tccttaaagt cttagttcct tgatttattg agctaagatt taaacgaaaa 1560 59 ctgcgccttc ttaatgtttc ataagaaggc gcagtttcct tttttcctca ttccattctc 1620 60 cgggtggtcg tcgaagggga ctgcctgtca tctttcaaac gaggaatatc agctccctc 1680 61 acccaacacg atgtccacaa atccatgttc atagcctatt tgagaccttt gaaaaaaagag 1740 62 aaggtttctt atatctatta tctataaagg cactaaaaat cagtcgattg acaataaaat 1800 63 ctccaagaaa ataccatgcg acagactcac tatatagatg cggtcaatgg tctgatatat 1860 64 cgaggctgtt gtggatggag gatagtacac atagttttgc acctgaaaca aacgttcata 1920 65 ctaaactaaa aacaaaagca ttatgactcc tatcctgaac accgttttcc ccgagttcaa 1980 66 actcaatgcc tatcacaatg gcgaattc 69 <210> SEQ ID NO: 2 70 <211> LENGTH: 344 71 <212> TYPE: PRT 72 <213> ORGANISM: Porphyromonas gingivalis 74 <400> SEQUENCE: 2 75 Met Lys Arg Leu Leu Ser Ala Ala Ile Leu Ser Ser Met Ala Leu 10 15 ... 1. . 5 78 Phe Asn Val Asn Ala Gln Glu Leu Lys Thr Ser Ala Asp Met Lys Gly 25 81 Ser Phe Lys Lys Asn Val Val Leu Glu Val Phe Thr Ala Glu Trp Cys 84 Gly Tyr Cys Pro Gly Gly Lys Glu Arg Ile Ala Lys Ala Ile Glu Met 55 87 Leu Asp Asp Glu Tyr Lys Glu Arg Val Phe Gln Thr Phe Val His Tyr 70 75 90 Asn Asp Gly Ile Ser Lys Lys Trp Pro Arg Val Gly Gln Leu Phe Ile 93 Ala Leu Asp Gln Thr Leu Gly Ile Pro Gly Phe Pro Thr Phe Ser Val 100 105 96 Cys Arg Met Glu Lys Lys Gly Glu Asn Leu Ser Ile Gly Ala Pro Ile 97 115 120 99 Ala Ile Lys Asn Lys Ile Met Lys Gly Phe Gly Asp Gly Thr Ala Pro 135 102 Ala Glu Val Asn Leu Lys Leu Thr Lys Gly Ala Thr Pro Glu Asp Val 150 155 105 Cys Thr Ala Thr Phe Thr Gly Lys Val Asp Ala Asp Leu Ile Gly Lys 106 165 170 108 Pro Leu Met Leu Thr Ala Tyr Val Leu Lys Asn Asn Met Lys Pro Ile 109 180 185 111 Asn Pro Gln Asn Gly Ala Gly Asp Gly Tyr Leu His Gln His Thr Val 200 114 Leu Met Ile Leu Ser Thr Asp Val Lys Gly Asp Ala Leu Asn Ile Ala 215 117 Ala Asp Gly Ser Phe Thr Ile Lys Lys Glu Phe Lys Leu Asp Gly Phe 235 120 Glu Ile Lys Asp Thr Asp Val Leu Ala Phe Val His His Pro Met Ser 121 245 250

RAW SEQUENCE LISTING DATE: 09/21/2006
PATENT APPLICATION: US/10/549,289 TIME: 11:35:37

Input Set : A:\81356248.APP

Output Set: N:\CRF4\09212006\J549289.raw

123	Asn	Ala	Glu	Asn	His	Ser	Ile	Ile	Asn	Ala	Gly	Gln	Glu	Ser	Leu	Asp
124				260					265					270		
126	Lys	Ala	Glu	Pro	Thr	Ala	Thr	Glu	Gln	Ile	Val	Ala	Thr	${\tt Pro}$	Ser	Val
127			275					280					285			
129	Lys	Ala	Tyr	Val	Gln	Asn	Gly	Lys	Ile	Val	Val	Glu	Glu	Glu	Tyr	Ser
130		290					295					300				
132	Lys	Met	Glu	Val	Phe	Asn	Ala	Thr	·Gly,	<u>Gl</u> n	Lgu	Val	Lys	Asn	Glu	Ser
133	305					310			-	•	315					320
135	Leu	Val	Pro	Gly	Val	Tyr	Val	Val	Arg	Ile	Thr	Ala	Asn	Gly	Val	Met
136					325					330					335	
138	His	Phe	Leu	Lys	Val	Leu	Val	Pro								
139				340												

VERIFICATION SUMMARY

A Markey of the Committee of the Committ

DATE: 09/21/2006

PATENT APPLICATION: US/10/549,289 TIME: 11:35:38

and the second second

Input Set : A:\81356248.APP

Output Set: N:\CRF4\09212006\J549289.raw

9/21/2006